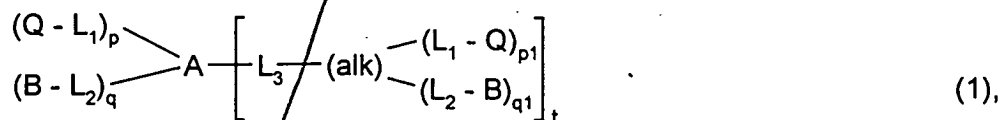


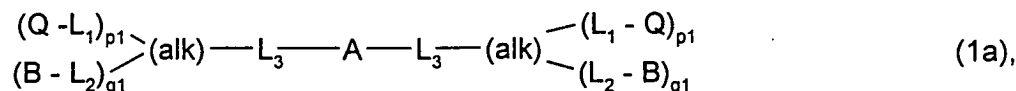
What is claimed is:

1. An amphiphilic block copolymer of formula



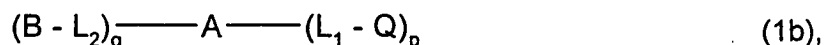
- 5 wherein A is a hydrophobic polysiloxane or perfluoroalkyl polyether segment;
B is a surface-modifying hydrophilic segment having a weight average molecular weight of ≥ 100
that is devoid of a crosslinkable group;
Q is a moiety comprising at least one crosslinkable ethylenically unsaturated group;
(alk) is C_2 - C_{20} -alkylene which is unsubstituted or substituted by hydroxy;
10 L_1 , L_2 and L_3 are each independently of the other a linking group;
 p_1 and q_1 are each independently of the other an integer from 1 to 12; and either
t is 0 and p and q are each independently of the other an integer from 1 to 25; or
t is an integer from 1 to 8 and p and q are each 0.

- 15 2. An amphiphilic block copolymer according to claim 1 of formula



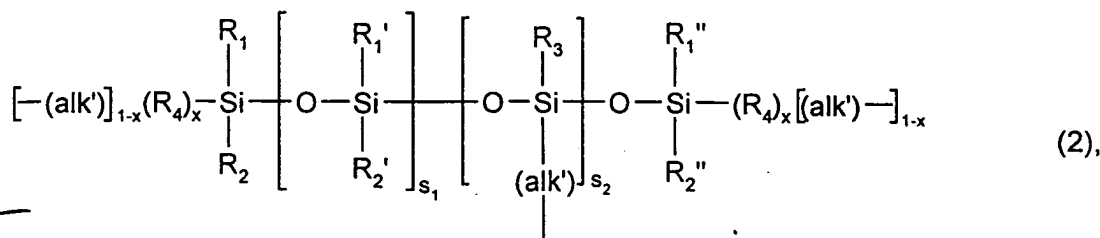
wherein A, B, L_1 , L_2 , L_3 , Q, (alk), p_1 and q_1 are each as defined in claim 1.

3. An amphiphilic block copolymer according to claim 1 of formula



wherein A, B, L_1 , L_2 and Q are each as defined in claim 1, and p and q are each independently of the other an integer from 2 to 20.

4. An amphiphilic block copolymer according to claim 1, wherein A is a polysiloxane segment of
25 formula



wherein (alk') is alkylene having 1 to 20 carbon atoms which may be interrupted by -O-;
x is 0 or 1;

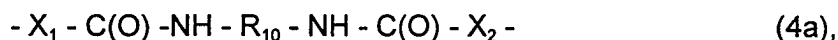
80 to 100 % of the radicals R_1 , R_1' , R_1'' , R_2 , R_2' , R_2'' , R_3 and R_4 , independently of one another, are C_1 - C_8 -alkyl, and 0-20% of the radicals R_1 , R_1' , R_1'' , R_2 , R_2' , R_2'' , R_3 and R_4 , independently of one another, are unsubstituted or C_1 - C_4 alkyl- or C_1 - C_4 -alkoxy-substituted phenyl, fluoro(C_1 - C_{18} -alkyl) or cyano(C_1 - C_{12} -alkyl),

s_1 is an integer from 5 to 700;

s_2 is the sum of $(p+q+t-2)$ if x is 0, and is the sum of $(p+q+t)$ if x is 1; wherein p, q and t are as defined in claim 1, and

the sum (s_1+s_2) is from 5 to 700.

5. An amphiphilic block copolymer according to claim 1, wherein L_1 , L_2 and L_3 are each independently of the other a bivalent linking group of formula



20 wherein X_1 and X_2 are each independently of the other a group -O-, -S- or - NR_0 -, R_0 is hydrogen or C_1 - C_4 -alkyl, and R_{10} is linear or branched C_1 - C_{18} -alkylene or unsubstituted or C_1 - C_4 -alkyl- or C_1 - C_4 -alkoxy-substituted C_6 - C_{10} -arylene, C_7 - C_{18} -aralkylene, C_6 - C_{10} -arylene- C_1 - C_2 -alkylene- C_6 - C_{10} -arylene, C_3 - C_8 -cycloalkylene, C_3 - C_8 -cycloalkylene- C_1 - C_6 -alkylene, C_3 - C_8 -cycloalkylene- C_1 - C_2 -alkylene- C_3 - C_8 -cycloalkylene or C_1 - C_6 -alkylene- C_3 - C_8 -cycloalkylene- C_1 - C_6 -alkylene.

6. An amphiphilic block copolymer according to claim 5, wherein L_1 is a linking group of formula (4a), (4c) or (4e), L_2 is a linking group of formula (4a), and L_3 is a linking group of formula (4b) or (4c).

5 7. An amphiphilic block copolymer according to claim 1, wherein B is a non-ionic segment selected from the group consisting of a polyoxyalkylene, polysaccharid, polypeptide, poly(vinylpyrrolidone), polyalkylacrylate or -methacrylate, polyhydroxyalkylacrylate or -methacrylate, polyacyl alkylene imine, polyacryl amide, polyvinyl alcohol, polyvinyl ether and a polyol, or is a polyionic segment selected from the group consisting of a polyallylammonium, polyethyleneimine, polyvinylbenzyltrimethylammonium, polyaniline, sulfonated polyaniline, polypyrrole and polypyridinium segment, and a polyacrylic and polymethacrylic acid, a polythiophene-acetic acid, a polystyrenesulfonic acid and a zwitterionic segment, or a suitable salt thereof.

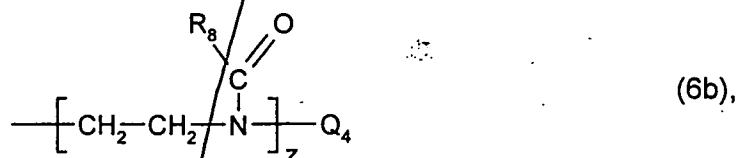
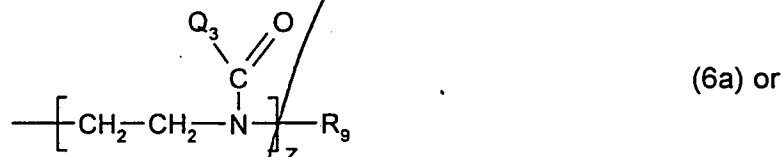
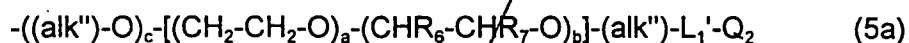
15 8. An amphiphilic block copolymer according to claim 1, wherein Q is a radical Q_1 of formula



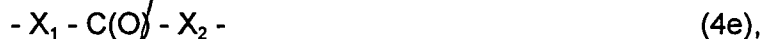
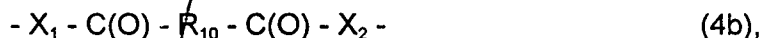
wherein (Alk) is linear or branched C_1 - C_{12} -alkylene, X is -O- or -NH-, R_{11} is an olefinically unsaturated copolymerisable radical having from 2 to 24 carbon atoms which is unsubstituted or further substituted by C_1 - C_4 alkoxy, halogen, phenyl or carboxy, and w is the number 0 or 1.

20 9. An amphiphilic block copolymer according to claim 1, wherein Q is a polyoxyalkylene, poly(vinylpyrrolidone), poly(hydroxyethylacrylate), poly(hydroxyethylmethacrylate), polyacrylamide, poly(N,N-dimethylacrylamide), polyacrylic acid, polymethacrylic acid, polyacyl alkylene imine or a copolymeric mixture of two or more of the above-mentioned polymers which
25 in each case comprises one or more ethylenically unsaturated bond and has a weight average molecular weight of, for example, ≥ 100 .

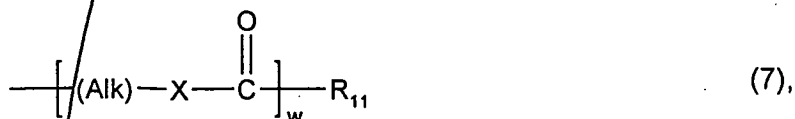
10. An amphiphilic block copolymer according to claim 9, wherein Q is a hydrophilic segment of formula



wherein L_1' is a bivalent linking group of formula



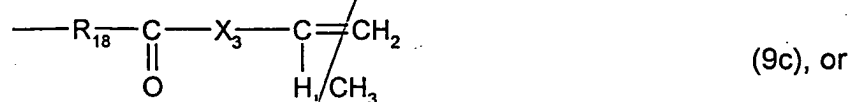
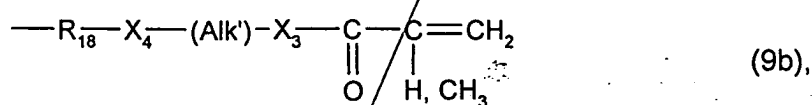
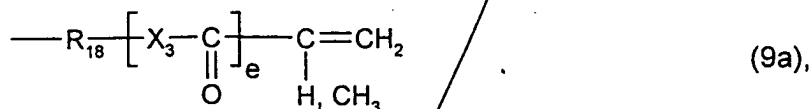
wherein X_1 and X_2 are each independently of the other a group $-\text{O}-$, $-\text{S}-$ or $-\text{NR}_0-$, R_0 is hydrogen or C_1 - C_4 -alkyl, and R_{10} is linear or branched C_1 - C_{18} -alkylene or unsubstituted or C_1 - C_4 -alkyl- or C_1 - C_4 -alkoxy-substituted C_6 - C_{10} -arylene, C_7 - C_{18} -aralkylene, C_6 - C_{10} -arylene- C_1 - C_2 -alkylene- C_6 - C_{10} -arylene, C_3 - C_8 -cycloalkylene, C_3 - C_8 -cycloalkylene- C_1 - C_6 -alkylene, C_3 - C_8 -cycloalkylene- C_1 - C_2 -alkylene- C_3 - C_8 -cycloalkylene or C_1 - C_6 -alkylene- C_3 - C_8 -cycloalkylene- C_1 - C_6 -alkylene, Q_2 is a radical of formula



wherein (Alk) is linear or branched C_1 - C_{12} -alkylene, X is $-\text{O}-$ or $-\text{NH}-$, R_{11} is an olefinically unsaturated copolymerisable radical having from 2 to 24 carbon atoms which is unsubstituted or further substituted by C_1 - C_4 -alkoxy, halogen, phenyl or carboxy, and w is the number 0 or 1,

Q_3 is C_3 - C_{12} -alkenyl or a radical $-(CH_2)_{1-4}-O-R_{16}$ wherein R_{16} is acryloyl, methacryloyl or a group $-C(O)-NH-(CH_2)_{2-4}-O-C(O)-C(R_{17})=CH_2$ and R_{17} is hydrogen or methyl,

Q_4 is a radical of formula



wherein X_3 is $-O-$ or $-NR$, R is hydrogen or C_1 - C_4 -alkyl, X_4 is a group $-C(O)-O-$, $-O-C(O)-NH-$ or $-NH-C(O)-O-$, (Alk') is C_1 - C_8 -alkylene, e is an integer of 0 or 1, and R_{18} is C_1 - C_{12} -alkylene, phenylene or C_7 - C_{12} -phenylenealkylene,

one of the radicals R_6 and R_7 is hydrogen and the other is methyl,

(alk'') is C_1 - C_6 -alkylene, c is the number 0 or 1, and each of a and b independently of the other is a number from 0 to 100, the sum of $(a+b)$ being from 2 to 100,

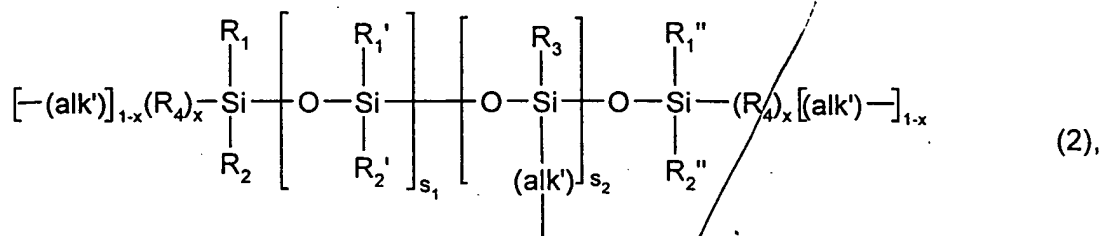
R_8 is hydrogen; C_1 - C_{12} -alkyl unsubstituted or substituted by hydroxy or fluoro and/or uninterrupted or interrupted by oxygen; C_5 - C_8 -cycloalkyl; phenyl; or benzyl,

R_9 is C_1 - C_{12} -alkyl, benzyl, C_2 - C_4 -alkanoyl, benzoyl or phenyl, and

z is an integer from 2 to 150.

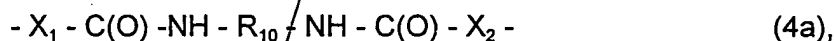
11. An amphiphilic block copolymer according to claim 2 of formula (1a), wherein

A is a polysiloxane segment of formula



wherein x and s_2 are each 0, and $\text{R}_1, \text{R}_1', \text{R}_1'', \text{R}_2, \text{R}_2', \text{R}_2'', \text{R}_3$ and R_4 are each independently of one another C_1 - C_4 -alkyl, B is a polyoxyalkylene, poly(vinylpyrrolidone), poly(hydroxyethylacrylate), poly(hydroxyethylmethacrylate), polyacrylamide, poly(N,N-dimethylacrylamide), polyacrylic acid, polymethacrylic acid, polyacyl alkylene imine or a copolymeric mixture of two or more of the above-mentioned polymers,

L_1 is a linking group of formula



L_2 is a linking group of the above formula (4a), and L_3 is a linking group of the above formula (4c) or of the formula



wherein X_1 and X_2 are each independently of the other a group $-\text{O}-$, $-\text{S}-$ or $-\text{NR}_0-$, R_0 is hydrogen or C_1 - C_4 -alkyl, and R_{10} is linear or branched C_1 - C_{18} -alkylene or unsubstituted or C_1 - C_4 -alkyl- or C_1 - C_4 -alkoxy-substituted C_6 - C_{10} -arylene, C_7 - C_{18} -aralkylene, C_6 - C_{10} -arylene- C_1 - C_2 -alkylene- C_6 - C_{10} -arylene, C_3 - C_8 -cycloalkylene, C_3 - C_8 -cycloalkylene- C_1 - C_6 -alkylene, C_3 - C_8 -cycloalkylene- C_1 - C_2 -alkylene- C_3 - C_8 -cycloalkylene or C_1 - C_6 -alkylene- C_3 - C_8 -cycloalkylene- C_1 - C_6 -alkylene,

Q is a radical Q_1 of formula



wherein (Alk) is linear or branched C_1 - C_{12} -alkylene, X is $-\text{O}-$ or $-\text{NH}-$, R_{11} is an olefinically unsaturated copolymerisable radical having from 2 to 24 carbon atoms which is unsubstituted or further substituted by C_1 - C_4 alkoxy, halogen, phenyl or carboxy, and w is the number 0 or 1, or Q

is a polyoxyalkylene, poly(vinylpyrrolidone), poly(hydroxyethylacrylate), poly(hydroxyethylmethacrylate), polyacrylamide, poly(N,N-dimethylacrylamide), polyacrylic acid, polymethacrylic acid, polyacyl alkylene imine or a copolymeric mixture of two or more of the above-mentioned polymers which in each case comprises one or more ethylenically unsaturated bond and has a weight average molecular weight of, for example, ≥ 100 , and p1 is an integer from 1 to 6, and q1 is an integer from 1 to 8.

12. An amphiphilic block copolymer according to claim 3 of formula (1b), wherein A, B, L₁, L₂ and Q are as defined in claim 11, and p and q are each independently of the other an integer 2 to 15.

13. A process for the manufacture of a molding, which comprises crosslinking an amphiphilic block copolymer of formula (1) according to claim 1 in a mold.

14. A process according to claim 13 wherein the molding is an ophthalmic molding and wherein the block copolymer is photo-crosslinked in an ophthalmic mold using actinic radiation.

15. A molding obtained by the process according to claim 13.

16. A molding according to claim 15, which is an ophthalmic molding, intraocular lens, or artificial cornea.

17. A molding according to claim 15, which is a contact lens.